



BSI Standards Publication

PUBLISHED DOCUMENT

Objectives and learning outcomes for BS 8888 training

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Summary of pages

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Foreword

Publishing information

This Published Document is published by BSI and came into effect on 30 April 2011. It was prepared by Subcommittee TDW/4/6, *Technical product realization – Education and training strategy*, under the authority of Technical Committee TDW/4, *Technical product realization*. A list of organizations represented on this committee can be obtained on request to its secretary.

BSI Subcommittee TDW/4/6 takes collective responsibility for its preparation. The Subcommittee wishes to acknowledge the contribution of the Institution of Engineering Designers.

Relationship with other publications

The need for this Published Document grew out of the publication of BS 8888 and the establishment of training courses to introduce its requirements to practising engineers, designers and technicians.

Presentational conventions

The provisions in this Published Document are presented in roman (i.e. upright) type. Its recommendations are expressed in sentences in which the principal auxiliary verb is “should”.

Commentary, explanation and general informative material is presented in smaller italic type, and does not constitute a normative element.

Contractual and legal considerations

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a Published Document cannot confer immunity from legal obligations.

1 Scope

This document sets out the recommendations for training programmes in Technical Product Specification (TPS) based on the BS 8888.

It provides guidance for the definition of content and learning outcomes of training courses and is aimed primarily at course developers. It is intended for training courses targeted at practising engineers, designers and technicians.

It does not provide training materials, assessment methods or certification mechanisms.

NOTE 1 Examples of technical product specifications include engineering drawings and 3D CAD models used for conveying engineering intent.

NOTE 2 A scheme based on this document is provided by the Institution of Engineering Designers.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

BS 8888, *Technical product specification*

BS EN 22768 (all parts), *General tolerances*

3 Terms and definitions

For the purposes of this Published Document, the following terms and definitions apply.

3.1 core outcome

necessary content of courses at the level specified

3.2 reader

person who interprets the technical product specification

NOTE The reader uses the drawings and associated documentation to support downstream applications such as manufacturing.

3.3 specifier

person who produces the technical product specification

NOTE The specifier generates drawings and associated documentation, usually in design.

3.4 supplementary outcome

additional content of courses at the level specified, according to the training needs

3.5 verifier

person who confirms that the requirements given in the technical product specification have been satisfied

4 Objectives and learning outcomes for BS 8888 training scheme

Trainees should have some familiarity with technical product specifications and engineering drawing practices and should be proficient in the following:

- types of standards (BS, ISO and ASME);
- drawing sheet sizes;
- drawing sheet and title block requirements;
- orthographic projections;
- scales;
- line types;
- cross-section and detail views;
- representation of screw threads etc.;
- dimensions;
- dimension schemes and rules of dimensioning;
- linear tolerances;
- limits and fits.

In addition, specifiers should be able to:

- lay out a drawing sheet;
- select a suitable sheet size and scale;
- select and show suitable views;
- apply dimensions.

NOTE Work roles are expected to fall into three categories: specifiers, readers and verifiers. The training in each of these categories is set out at two levels.

- *Level 1: Basic, for those who are taking on such roles and require to gain, or regain, familiarity with TPS documentation in a BS 8888 environment.*
- *Level 2: Advanced, for those already familiar with TPS documentation, who need to have a more advanced interpretation of details appropriate to their industry and role.*

The minimum level of expertise needed for Level 1 courses should be part of the initial education and training of designers (see Annex A).

The course provider should certify the successful completion of the core, and any other supplementary, material.

5 Level 1 training

5.1 Objectives

Upon completion of a Level 1 course a specifier should be able to produce technical product specifications for manufactured components that conform to British and ISO standards and to use GPS specification methods.

NOTE This can be achieved with supervision and guidance from a specifier at Level 2 or equivalent.